PATENT ABSTRACTS OF JAPAN

(11) Publication number:

11229079 A

(43) Date of publication of application: 24.08.1999

(51) Int. CI

C22C 38/00

B22D 11/128,

C21D 8/02,

C22C 38/32, C22C 38/54

(21) Application number:

(22) Date of filing:

10027246 09.02.1998

(71) Applicant: SUMITOMO METAL IND LTD

(72) Inventor:

MIURA MITSURU YAMAMOTO AKIO

IKEDA TOMOAKI

(54) ULTRAHIGH STRENGTH STEEL PLATE FOR LINE PIPE AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an ultrahigh strength steel plate for line pipe excellent in HIC resistance and CO_2 corrosion resistance and having ≥ 900 N/mm² tensile strength.

SOLUTION: The steel plate has a steel composition

which consists of, by weight, 0.03-0.10% C, 0.05-0.40% Si, 1.00-1.50% Mn, $\leq 0.030\%$ P, $\leq 0.0020\%$ S, <0.50% Cu, 0.81-1.50% Cr, 0.01-0.10% Nb, 0.01-0.10% V, 0.005-0.030% Ti, $\leq 0.06\% \text{ AI}$, < 0.007% N, 0.0005-0.0050% Ca, 0.0004-0.0020% B, and the balance Fe with inevitable impurities and in which carbon equivalent Ceq. is regulated to 0.48 to 0.60%. Moreover, this steel plate has a mixed structure of lower bainite and lath-like martensite.

COPYRIGHT: (C)1999,JPO

DELPHION



Select C

Log Out Work Files Saved Searches My Account

RESEARCH

PRODUCTS

INSIDE DELPHION

Search: Quick/Number Boolean Advanced Der

The Delphion Integrated View

Get Now: PDF | File History | Other choices

Tools: Add to Work File: Create new Work

View: INPADOC | Jump to: Top

Go to: Derwent

Title:

JP11229079A2: ULTRAHIGH STRENGTH STEEL PLATE FOR LINE P

ITS PRODUCTION

Porwent Title:

Steel sheet for pipe line - consists of mixed structure of bainite and lath

martensite [Derwent Record]

** Country:

JP Japan

A (See also: JP03344308B2)

MIURA MITSURU: YAMAMOTO AKIO: IKEDA TOMOAKI:

Assignee:

SUMITOMO METAL IND LTD

News, Profiles, Stocks and More about this company

Published / Filed:

1999-08-24 / 1998-02-09

Application

JP1998000027246

Number:

Advanced: B22D 11/128; C21D 8/02; C22C 38/00; C22C 38/32;

C22C 38/54; Core: more...

IPC-7: **B22D 11/128**; C21D 8/02; C22C 38/00; C22C 38/32; C22C 38/54;

Priority Number:

1998-02-09 JP1998000027246

PROBLEM TO BE SOLVED: To provide an ultrahigh strength steel plate for line pipe excellent in HIC resistance and CO2 corrosion resistance and having ≥900 N/mm2 tensile strength. SOLUTION: The steel plate has a steel composition which consists of, by weight, 0.03-0.10% C, 0.05-0.40% Si, 1.00-1.50% Mn, $\leq 0.030\%$ P, $\leq 0.0020\%$ S, $\leq 0.50\%$ Cu, 0.81-1.50% Cr, 0.01-0.10% Nb, 0.01-0.10% V, 0.005-0.030% Ti, $\leq 0.06\%$ Al, < 0.007% N, 0.0005-0.0050% Ca, 0.0004-0.0020% B, and the balance Fe with

inevitable impurities and in which carbon equivalent Ceq. is regulated to 0.48 to 0.60%. Moreover, this steel plate has a mixed structure of lower bainite and lath-like martensite.

COPYRIGHT: (C)1999,JPO

♥INPADOC Legal Status:

None

Get Now: Family Legal Status Report

Show 2 known family members

Other Abstract

CHEMABS 131(11)147445F CHEMABS 131(11)147445F DERABS

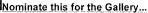
C1999-523101 DERABS C1999-523101 Info:

ULTRAHIGH STRENGTH STEEL PLATE FOR LINE PIPE AND ITS PRODUCTION ... Page 2 of 2













Copyright © 1997-2008 The Thoi

Subscriptions | Web Seminars | Privacy | Terms & Conditions | Site Map | Contact U